



AUTOMATIC REVOLVING DOOR SYSTEMS





3-WING AUTOMATIC REVOLVING DOOR
DIAMETER (ϕ): Can be produced between 1800 mm and 5000 mm.



4-WING AUTOMATIC REVOLVING DOOR
DIAMETER (ϕ): Can be produced between 1800 mm and 5000 mm.



NIGHT SHIELD



BREAK OUT (BROKEN WING) APPLICATION



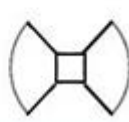
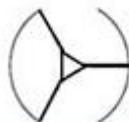
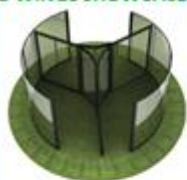
GLASS CEILING REVOLVING DOOR
DIAMETER (ϕ): Can be produced between 2000 mm and 3400 mm.



AUTOMATIC REVOLVING DOOR WITH SLIDING DOOR SHOWCASE
 DIAMETER (ϕ): Can be produced between 3600 mm and 6000 mm.

3 WINGS SHOWCASE

4 WINGS SHOWCASE



AUTOMATIC REVOLVING DOOR WITH SHOWCASE
 DIAMETER (ϕ): Can be produced between 3400 mm and 5400 mm.

D	D1	3 WINGS W	4 WINGS W	H	K
2000	1895	912	1326		
2100	1895	962	1397		
2200	1995	1012	1468		
2300	2095	1062	1539		
2400	2195	1112	1610		
2500	2295	1162	1681		
2600	2395	1212	1752		
2700	2495	1262	1823		
2800	2595	1312	1894		
2900	2195	1362	1965		
3000	2295	1412	2036		
3100	2395	1462	2107	2100-2300	250-300
3200	2495	1512	2178		
3300	2595	1562	2249		
3400	1995	1612	2320		
3500	2095	1662	2391		
3600	2195	1712	2462		
3700	2295	1762	2533		
3800	2395	1812	2604		
3900	2495	1862	2675		
4000	2595	1912	2746		

* Measurements are written in MM.

* Dimensions may vary depending on project requirements.

AUTOMATIC REVOLVING DOOR TECHNICAL SPECIFICATIONS;



HMI Touch Screen

Emergency Stop Button – Spot-Led Lighting On/Off

Disabled / Elderly Transition



Handshake Sensor

Heel Sensor

Presence Sensor (OPTIONAL)

Curtain Sensor (OPTIONAL)

TECHNICAL SPECIFICATION	INCLUDED (STANDARD DOOR)	EXCLUDED (OPTIONAL)
HMI Touch Screen	✓	
Ral: Natural Matt Anodized	✓	
Engine 0.25 KW, 220 VAC 3 Phase with Aynamahruti Gearbox	✓	
Straight Wing Glasses and Curved Glasses (8mm Transparent Tempered Glass)	✓	
Heel Pneumatics	✓	
Vertical Safety Pneumatics (Finger Protection)	✓	
Electromechanical Locking	✓	
220VAC 5W 6 LED Spot Lighting	✓	
Extra Safety Sensors		X
Std. Ral Paint Colors – Special Ral Paint Colors		X
Stainless Steel Cladding		X
Tinted Glass		X
Presence Sensor		X
Air curtain		X
Ground circle		X
Break Out System (Broken Wing)		X
Floor Mat		X
Night Shield		X
Wing Arms		X
Water Insulation		X

Technical Specifications	Explanation
Feed Input	220-230 Vac 50hz 16a(Single Phase)
Motor and Reducer	0,25KW, 220VAC 3 Phase, Aynamahruti Reducer (Bonfiglioli, Italy)
Engine Driver	0,4KW 220-230VAC 50-60 Hz Frequency Control Unit (EXODOOR, Türkiye)
Activator Feed	110-240VAC 24V 5A Switchmode (Omron, Japan)
System Controller	Industrial PLC (EXODOOR, Türkiye)
Remote Control	Industrial HMI Touch Screen (EXODOOR, Türkiye)
Readers	4 mm Metal Sensitive Sensor (Omron, Japan)
Pneumatic Safety	EPDM Profiled Security Border (Aso, Germany)
Photocell Safety	Safety Light Curtain with Passive Infrared Sensor (Bircher/Reglomat, Switzerland)
Perception	Microwave Radar 24 Ghz (EXODOOR, Türkiye)
Buttons	Touch Button Membrane Safety (EXODOOR, Türkiye)
Lighting	220VAC 5W 6/8 Piece LED Spot (P.R.C)
Locking	Locking from Electromagnetic Current Printed Motor (EXODOOR, Türkiye)
Canopy Construction	30x30 2mm Twisted Galvanized Steel Profile
Forehead Veneer	Coated 2mm Twisted Aluminum Sheet
Ceiling Covering	CNC Cutting 2mm Modular Ceiling System
Middle Shaft	Aluminum Sigma Profile with 3/4 Wing Option
Center Bearing	Special Oil Impregnated Vertical Carrier Derlin, Not Affected by Water and Dust.
Twisted Aluminum Profiles	EXODOOR Patented Jointless Slatless Interlocking Series with Bending Suitable Design.
Cheek Curved Glasses	8mm Tempered or 4+4 Laminated Transparent Curved Glass Specially Produced for the Door.
Aluminum Wing Profiles	EXODOOR Patented Brush Cover, Wrapping-Free, Slatless Series.
Wing Windows	Custom Made 8mm Tempered or 4+4 Laminated Transparent Flat Glass, Depending on the Door.
Brushes	45mm Horsehair Brush that does not make noise or scratches.

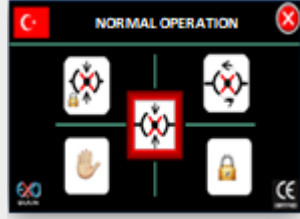
Optional Features	Explanation
Presence Sensors	It is recommended to be used on doors with an outer diameter larger than 2800 mm.
On-Wing Presence Sensors.	It is recommended to be used on doors with an outer diameter of 3800 mm and above. .
Broken Wing (Break out)	It must be used in places where there is no service door.
Automatic Night Shield	Single or Double Wing Automatic Circular Door Synchronized with the Door.
Air curtain	Straight or Curved Air Curtain System Synchronized with the Door.
Stainless Coating	304 or 316 Quality Polished, Satin or Special Patterned Stainless Plate.
Colored Glass-Special Glass	Plain or Reflective Options on Cheeks and Wings.
Wing Arms	Vertical or Horizontal Stainless or Aluminum Pipe Arms.
Night Shield	Circular Sliding Door with Automatic and Manual Locking.

TOUCH SCREEN (HMI)

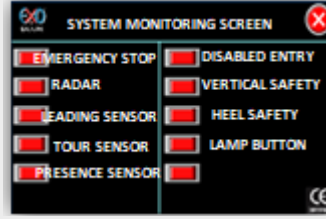
SELECTION



POSITIONS



SYSTEM MONITORING



SETTINGS



ERROR REPORTS



The PLC CONTROLLER with a special MAC address allows remote access through the necessary settings and PORT forwarding.

Also, since HMI is able to see temporary or permanent error Codes on the screen, without hassle for fault detection,

According to the Error Code on the screen without losing time is resolved.

LCD PANEL USAGE AND SETTINGS;

The LCD panel is a touchscreen digital display with a user-friendly interface that shows you status of door and allows you to set general settings. You can make basic settings using the LCD panel.

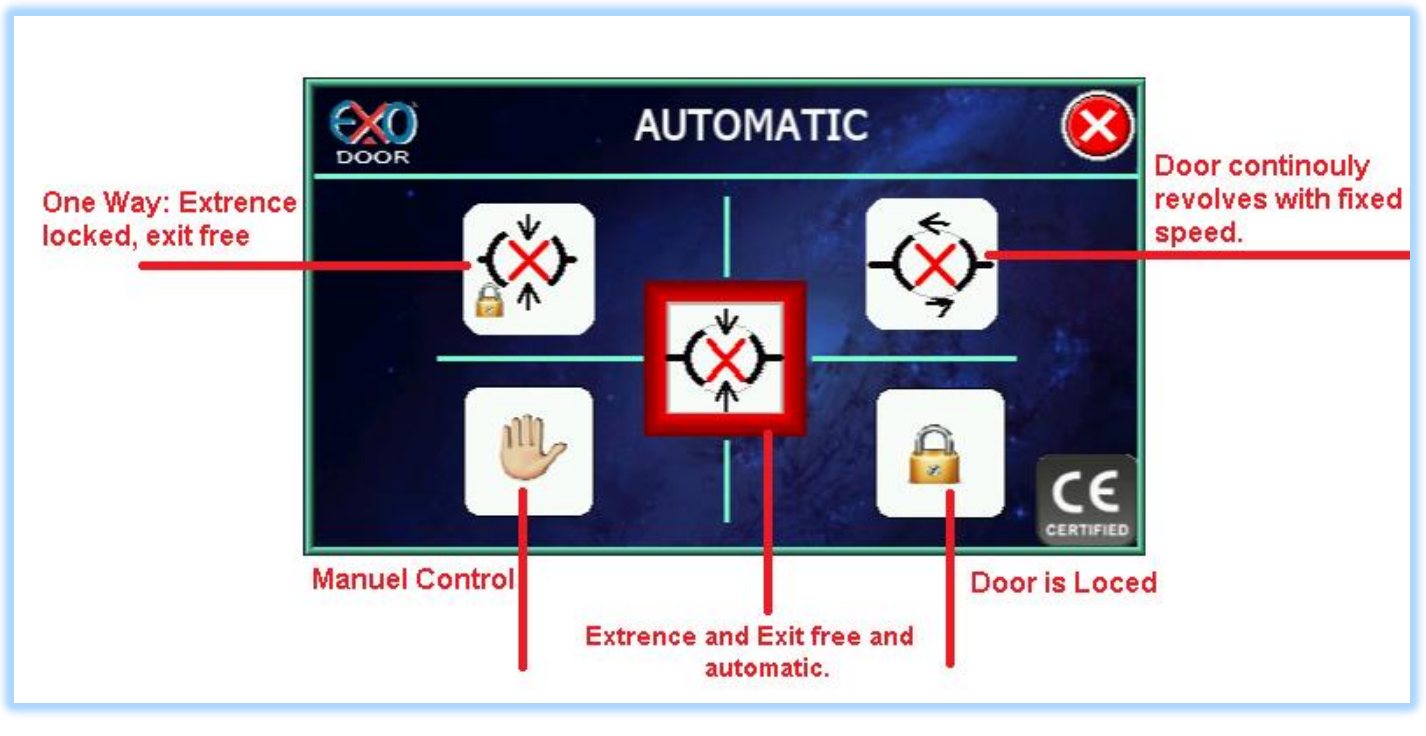
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General settings

Position Settings



PreFactory settings of positions



Custom settings

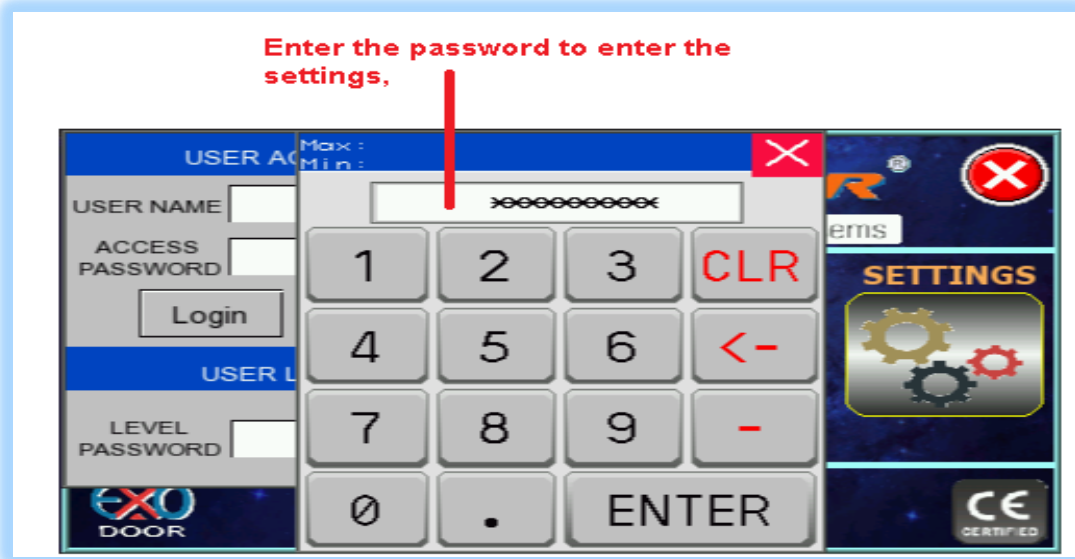
This feature allows to check every Electronical component located on door such as photocells, sensor etc.



Green: Active

Red: Inactive

SETTINGS;



SLOW SPEED: Slow speed of the door before it starts moving.

HANDICAPPED SPEED: Slow speed for the handicappeds.

NORMAL SPEED: Normal movement speed.

JOG ACC. SPEED: Acceleration speed for the door's first movement.

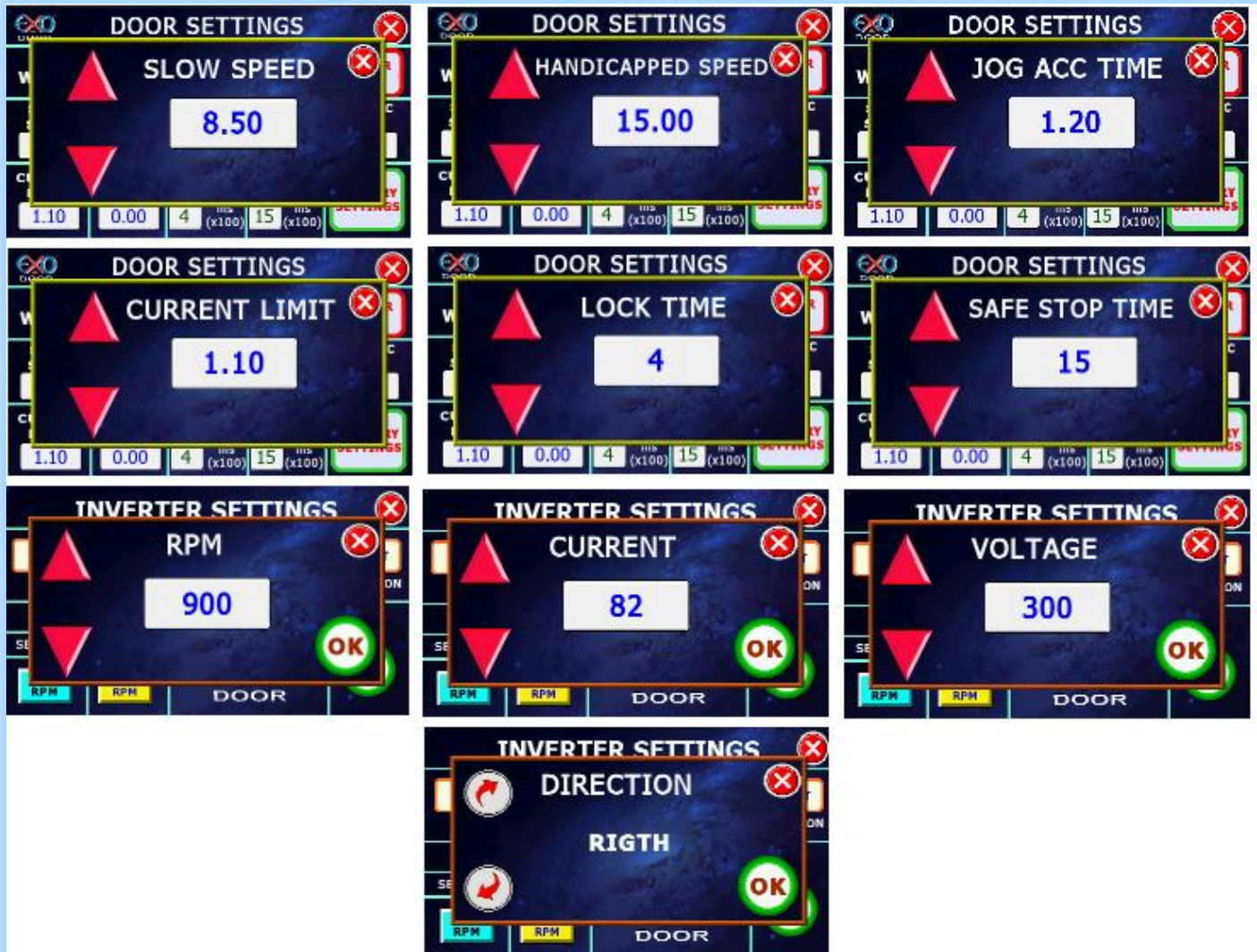
JOG SLOW SPEED: Set speed of the door stops.

CURRENT LIMIT: Current multiplier; this setting shouldn't be changed with unauthorized users.

CURRENT READ: Instantaneous value of current multiplier.

LOCK TIME: Duration of the door detects jamming.

SAFE STOP TIME: Duration from stationary position to moving position.



FAULT CODES



SLOW SPEED	: The speed of the door before it starts to open.
DISABLED SPEED	: Movement speed of the door for disabled users.
NORMAL SPEED	: Door speed in normal movement.
TAKE-OFF RAMP	: The set speed for the door to start its initial movement.
DECELATION RAMP	: Adjusted speed for the door to stop.
CURRENT SET	: It is the current multiplier. It must be absolutely inaccessible to those who are not authorized.
READ CURRENT	: Multiplier of the instantaneous current drawn by the door.
LOCK DURATION	: The time it takes for the door to detect jamming.
REPEAT WORK	: Restart time from rest.



BONFIGLIOLI (ITALY) ENGINE TECHNICAL SPECIFICATIONS

Torque range

100 ... 14000 Nm

Mechanical rating ($n_1 = 1400 \text{ min}^{-1}$)

0.22 ... 150 kW

Gear ratios

5.4 ... 1715

Output

Foot and shaft mount - two bore options per size

Keyless shrink disc fitting

Metric or Inch series solid output shaft

Taper bushings matching more shaft diameters

Splined hollow shaft to DIN 5480

Input

IEC and NEMA motor adaptors

Servomotor adapters

Metric or inch series solid input shaft

Main gear options

Backstop

Reinforced bearings for higher overhung load capacity

Reduced backlash

Taconite seals

Applicable AC motors

Integral motors and brake motors - M series / ME series

IEC-normalized motors and brake motors - BN series / BE series

Single and dual speed motors

Main brake features

DC and AC supply

Faster brake engage/disengage through electronically

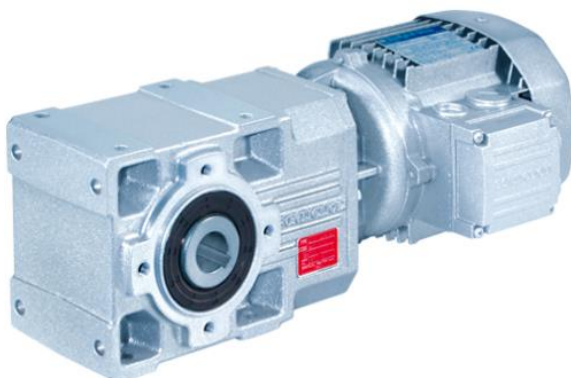
Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

Thermistors and thermostat sensors

Separate supply forced ventilation

Line driver and push-pull incremental encoder



Type	Torque [Nm]
A 05	100
A 10	150
A 20	250
A 30	410
A 35	600
A 41	850
A 50	1500
A 55	2000
A 60	2800
A 70	5000
A 80	8000
A 90	14000

HARDWARE FEATURES

Safety System: Safety systems of EXODOOR Automatic Revolving doors; Vertical pneumatics are installed as standard on the fixings towards the direction of rotation of the door.

In addition, it is offered optionally according to the project requirements, and the door return

wing with vertical line detection point scanners placed on the canopy according to the direction

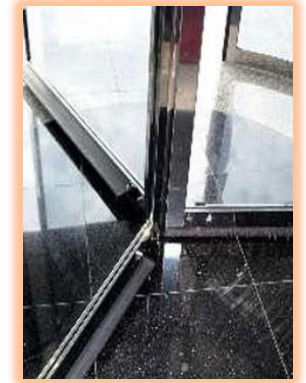
There is no jamming between the constants.

In order to provide protection on the inside of the door, the lower parts of the revolving door wings

There are pneumatic systems mounted horizontally according to the direction of rotation.

These pneumatics instantly stop the door at the slightest contact and prevents people from being harmed. Additionally applied Curtain Safety sensors are Mounted on the upper part of the leaves towards the direction of rotation, it is mounted on any direction of rotation of the door leaf.

It prevents contact with a person or object.



Elderly - Disabled passage system: The system consists of a button and systems connected to this button. Once the button is pressed, the moving wings

The rotation speed decreases and elderly and disabled people can pass through the door safely.

Emergency Safety Button: Press the button in case of any emergency. When pressed, the door stops instantly and the automatic revolving door opens manually.

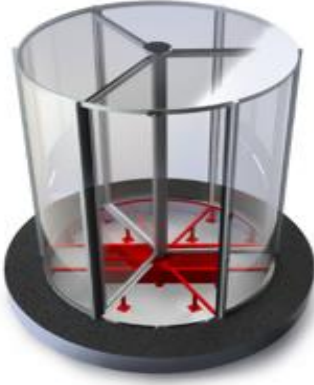
available. In this way, the door wings can be moved by hand.

Glass: 4+4 mm curved laminated transparent glass is used as standard in fixed wings, and 8 mm transparent tempered glass is used as standard in movable wings. If desired, 5+5 mm curved laminated glass and 10 mm transparent on the moving wings Tempered glass can be applied easily.

Additionally, it can be used optionally in all kinds of colored, colored reflective glass systems. available. Wings: Made of 100% Aluminum profile, specially designed to achieve maximum efficiency in revolving doors.

It consists of a profile system and 100% horsehair brushes surrounding these profiles.





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